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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,183	12/08/2003	Herbert A. Little	555255012471	2882

7590 03/20/2008  
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EXAMINER
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ZEE, EDWARD

ART UNIT	PAPER NUMBER
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2135

MAIL DATE	DELIVERY MODE
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03/20/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/730,183	<b>Applicant(s)</b> LITTLE ET AL.	
	<b>Examiner</b> EDWARD ZEE	<b>Art Unit</b> 2135	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 December 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-32 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. This is in response to the amendments filed on December 12<sup>th</sup>, 2007. Claims 1, 11, 12 and 30-32 have been amended; Claims 1-32 are pending and have been considered below.

#### ***Continued Examination Under 37 CFR 1.114***

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 12<sup>th</sup>, 2007 has been entered.

#### ***Claim Rejections - 35 USC § 112***

3. The amendments filed on December 12<sup>th</sup>, 2007 have been considered and effectively overcome the previous rejections to Claims 11 and 12. Therefore, the previous 35 U.S.C. 112 rejections have been withdrawn.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1, 3, 5, 7-10, 12-18, 20, 21, 24, 25, 28, 29 and 31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

6. Claims 1, 3, 5, 8-10, 12, 16-18, 20, 21, 24, 25, 28, 29 and 31 recite the limitation "the remote device" throughout these claims. There is insufficient antecedent basis for this limitation in the claim. The Examiner notes that there is a plurality of remote devices in Claim 1.

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7. Claim 3 recites the limitation "the received access code" in lines 6 and 7. There is insufficient antecedent basis for this limitation in the claim.
8. Claims 7, 9 and 21 recite the limitation "the user" throughout these claims. There is insufficient antecedent basis for this limitation in the claim. The Examiner notes that there is a plurality of users in Claim 1.
9. The term "short" in claims 13 and 15 is a relative term which renders the claim indefinite. The term "short" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.
10. The Examiner notes that due to the immense number of antecedent basis issues present, the claims have not been checked to the extent necessary to determine the presence of all possible antecedent basis issues. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the instant set of claims.

***Claim Rejections - 35 USC § 101***

11. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-29 and 31 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1-29 and 31 disclose a system comprising an authentication information store and an authentication system, which in light of the specification, appear to be software modules. Thus, Claims 1-29 and 31 are drawn to software per se. Software is not a series of steps or acts and this is not a process. Software is not a physical article or object and as such is not a machine or manufacture. Software is not a combination of substances and therefore not a compilation of matter. Thus, software by itself does not fall within any of the four categories of invention. Therefore, Claims 1-29 and 31 are not statutory.

***Claim Rejections - 35 USC § 102***

12. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

13. **Claims 1-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Owen et al. (2004/0187018).**

***Claim 1:*** Owen et al. discloses a system for distributing authentication information to users of remote devices comprising:

- a. an authentication information store configured to store authentication information for a plurality of users(*ie. record passcode with primary ID 522*) [figure 5];
- b. an authentication system configured to receive a request for authentication information for one of the plurality of users from a remote device(*ie. passcode request 508*) [figure 5];
- c. wherein the request comprises identity information for use in determining whether the request is from one of the plurality of users(*ie. primary ID, PIN, etc.*) [figure 5];
- d. wherein the authentication system retrieves based on the identity information(*ie. primary ID, etc.*) the authentication information for the one of the plurality of users from the authentication information store [figure 5];
- e. wherein the retrieved authentication information is provided to the remote device for use in authenticating a user that is requesting remote access to a computer network(*ie. communicate encrypted passcode to the suspect user for presentation to the access authority*) [page 2, paragraph 0010].

**Claim 2:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the authentication information is used in a two-factor authentication system [figure 1].

**Claim 3:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above, and further discloses that the authentication information store comprises a seed store configured to store a plurality of seeds; wherein the authentication system is configured to receive a seed request from the remote device, to retrieve the one of the plurality of seeds from the seed store, to calculate an access code using the retrieved seed, to determine whether the calculated access code matches a received access code and to return the retrieved seed to the remote device where the calculated access code matches the received access code(*ie. construct rotating key from a shared secret such as a PIN that matches a synchronized server key*) [page 1, paragraph 0007].

**Claim 4:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 and further discloses that the request comprises an HTTP connection request [figure 10].

**Claim 5:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the request comprises a network password and a digital signature, wherein the network password and digital signature are verified by the authentication system before the authentication information is provided to the remote device(*ie. credentials include password and information transmitted from a token of an authorized user*) [page 4, paragraph 0031].

**Claim 6:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the identity information comprises user information and account information(*ie. user id, etc.*) [page 4, paragraph 0031].

**Claim 7:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 6 above and further discloses that the identity information identifies a particular user and corresponding

authentication information being requested, and is used by the authentication system to authenticate the user requesting the authentication information(*ie. compares user ID and respective credentials and/or password etc.*) [page 4, paragraph 0031].

**Claim 8:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the authentication information in the request is used by the remote device for two-factor authentication [figure 1].

**Claim 9:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 8 above and further discloses that the identity information comprises a network password entered by the user of the remote device and a digital signature generated based on a transformation of at least a portion of the information in the request, a signature key and a signature algorithm(*ie. temporal-based or sequential-based value*) [page 4, paragraph 0031].

**Claim 10:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the authentication system does not provide the authentication information to the remote device because a match was not found in the authentication information store based upon the identity information [abstract].

**Claim 11:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the authentication information comprises a password required for remote access to resources in the computer network, wherein the password is not known to a user of the remote device but is required for access to the resources in the computer network(*ie. passcode*) [abstract].

**Claim 12:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses an access code required for remote access to resources in the computer network,

wherein the access code is not known to a user of the remote device but is required for access to the resources in the computer network(*ie. passcode*) [abstract].

**Claims 13-16:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the retrieved authentication information comprises an expiring or non-expiring password and/or access code which is valid for a short period of time, wherein the period of time is on the order of minutes [page 2, paragraph 0013].

**Claim 17:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the retrieved authentication information comprises a seed from which access codes are to be generated by the remote device, wherein the seed is stored in a protected data store on the remote device(*ie. usb tokens, etc.*) [page 1, paragraph 0007].

**Claim 18:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the retrieved authentication information is used by the remote device to gain access to a corporate local area network(LAN) [figure 10].

**Claim 19:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 18 above and further discloses that two-factor authentication is used in the LAN to authenticate a user requesting remote access to the LAN, wherein the retrieved authentication information is used in performing two-factor authentication in order to gain access to the LAN [figure 10].

**Claim 20:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 19 above and further discloses that the retrieved authentication information comprises a seed which the remote device's two-factor code generator uses to produce an access code(*ie. hardware tokens*);

a. wherein the access code is also based upon a value provided by the remote device's clock, wherein the access code is used by the remote device to gain access to the LAN(*ie. time based token*);



- b. wherein the seed is used by the authentication system to also generate an access code for use in a comparison with the access code generated by the remote device(*ie. synchronized key generated at the server*);
- c. wherein access to the LAN is either granted or denied based upon the comparison [page 1, paragraph 0007].

**Claim 21:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 20 above and further discloses that the remote device only generates the access code when access to the LAN is requested by the user of the remote device(*ie. generate passcode after receiving request*) [page 1, paragraph 0010].

**Claim 22:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 20 above and further discloses that the authentication information store comprises an index by user name that indicates users authorized for remote access to the LAN(*ie. authorized users list maintained by the authentication authority*) [page 1, paragraph 0010].

**Claim 23:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 22 above and further discloses that the authentication information store stores user seed values from which access codes are to be generated(*ie. synchronized key generated at the server*) [page 1, paragraph 0007].

**Claim 24:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the remote device is a wireless mobile communication device [page 2, paragraph 0011].

**Claim 25:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 24 above and further discloses that the remote device stores the authentication information in a data store(*ie. usb token*) [page 1, paragraph 0007].

**Claims 26 and 27:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 25 above, and further discloses that the data store is implemented in a smart card or USB token (ie. usb token, etc.) [page 1, paragraph 0007].

**Claim 28:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the remote device is a desktop computer [page 2, paragraph 0011].

**Claim 29:** Owen et al. discloses a system for distributing authentication information to users of remote devices as in claim 1 above and further discloses that the remote device communicates with the authentication system over a communication system, wherein the communication system comprise a wide area network (WAN) and a wireless network gateway [figure 10].

**Claim 30:** Owen et al. discloses a method for distributing authentication information for remotely accessing computer resources, comprising:

- a. receiving a request for the authentication information from a remote device, the request comprising identity information of a user of the remote device (ie. *passcode request 508*) [figure 5];
- b. wherein the authentication information is stored in an authentication data store (ie. *record passcode with primary ID 522*) [figure 5];
- c. authenticating the user based on the identity information in the request (ie. *primary ID, PIN, etc.*) [figure 5];
- d. returning the authentication information to the remote device to authenticate a user requesting remote access to a computer resources based upon the returned authentication information (ie. *communicate encrypted passcode to the suspect user for presentation to the access authority*) [page 2, paragraph 0010].

**Claim 31:** Owen et al. discloses an apparatus for handling authentication information for users of remote devices, comprising:

- a. an authentication information store configured to store authentication information for a user of a remote device, the authentication information provided by a remote authentication system(*ie. record passcode with primary ID 522*) [figure 5];
- b. a request for the authentication information from the remote device to the remote authentication system contains identity information(*ie. passcode request 508*) [figure 5];
- c. a code generation system configured to retrieve the authentication information(*ie. passcode*) stored in the authentication information store [figure 5];
- d. access information(*ie. encrypted passcode is generated from passcode*) is generated based upon the retrieved authentication information and is used to authenticate a user requesting remote access to a remote computer network [figure 5].

**Claim 32:** Owen et al. discloses a method for obtaining authentication information for remotely accessing a computer network, comprising:

- a. providing a request from a user of a remote device to an authentication system for the authentication information that is stored in a data store by the authentication system(*ie. passcode request 508*) [figure 5];
- b. the request comprises identity information(*ie. primary ID, etc.*) for use by the authentication system to authenticate the user based on the identity information provided in the request [figure 5];
- c. receiving by the remote device the authentication information from the authentication system(*ie. communicate encrypted passcode to the suspect user for presentation to the access authority*) [page 2, paragraph 0010];
- d. wherein the received authentication information is used to authenticate a user requesting remote access to the computer network(*ie. presentation to the access authority*) [page 2, paragraph 0010].

***Response to Arguments***

14. Applicant's arguments with respect to claims 1 and 3 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDWARD ZEE whose telephone number is (571)270-1686. The examiner can normally be reached on Monday through Thursday 9:00AM-5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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March 16, 2008  
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